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UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1963–64

RECENT ADVANCES IN IRON- AND STEELMAKING

In co-operation with the
AMERICAN SOCIETY FOR METALS

RECENT ADVANCES IN IRON- AND STEELMAKING

Mondays **10 Lectures**

The purpose of this course is to describe the changes that have taken place in the iron and steel industry during the last two decades. It is assumed that those taking this course are familiar with the general principles involved in the reduction and refining of iron.

Most of the recent advances have been toward increasing production rates without the need for increased capital expenditures. Foremost among these have been the changes in the blast-furnace process brought about partially by improvements in iron-ore concentration and agglomeration. In addition, much research has been conducted on alternative methods of iron reduction which could replace the blast furnace for this purpose. The present status of these alternative processes are discussed.

In steelmaking, the major advances have come about through the use of low-cost oxygen gas. The modern oxygen processes and continuous casting of the finished product complete this series of lectures.

LECTURER:
Professor H. U. Ross
Department of Metallurgy
University of Toronto

TIME: 7:30 p.m. beginning October 7th

PLACE: Room 403, Galbraith Building

FEE: $25.00

Registration

By mail or in person at Room 201, 84 Queen's Park, 9 a.m. to 5 p.m. daily except Saturdays. Application forms may be obtained by writing to the above address or by telephoning 928–2393, 928–2394, 928–2395 or 928–2396.

COURSE DESCRIPTION

The course will take the following general outline:

Lecture 1—Iron-Ore Concentration

Lecture 2—Iron-Ore Agglomeration

Lecture 3–5—Blast-Furnace Reactions, Auxiliary Fuel Injection, Higb-Temperature Blast

Lectures 8–10—Oxygen Steelmaking and Continuous Casting.